

NAME:

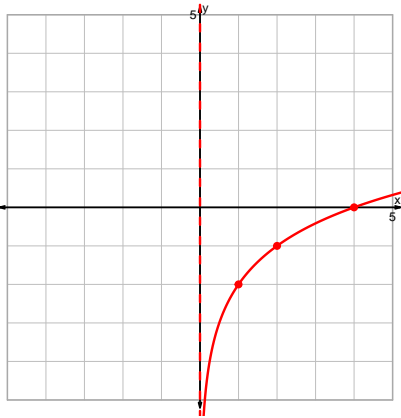
DATE:

Unit-2 Reduced Mastery Assessment (version 310)

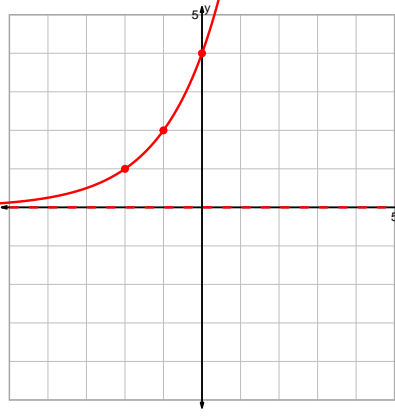
Question 1 (20 points)

Graph the equations accurately. For each integer-integer point on the parent, indicate the corresponding point precisely. Also, with dashed lines, indicate any asymptotes.

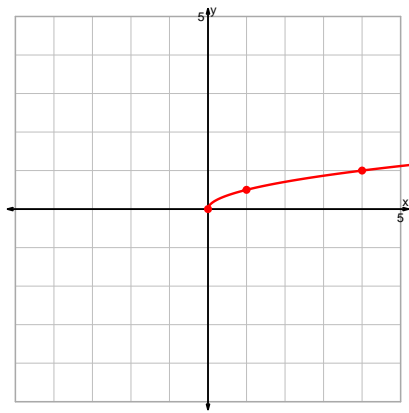
$$y = \log_2(x) - 2$$



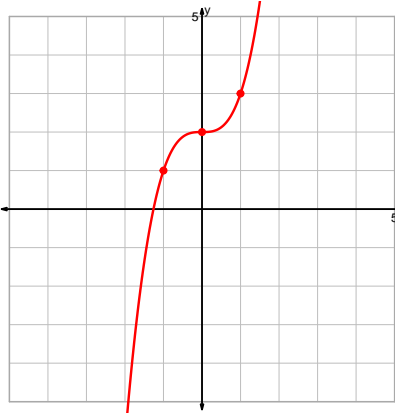
$$y = 2^{x+2}$$



$$y = \frac{\sqrt{x}}{2}$$

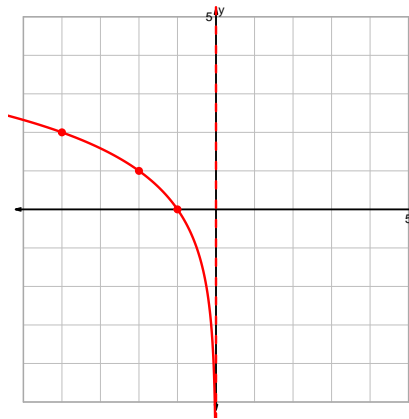


$$y = x^3 + 2$$

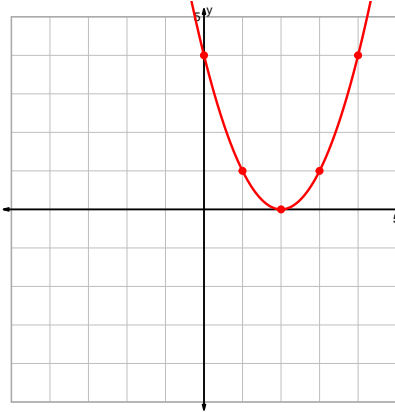


Question 2 continued...

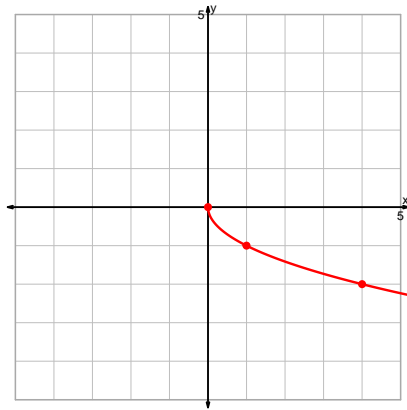
$$y = \log_2(-x)$$



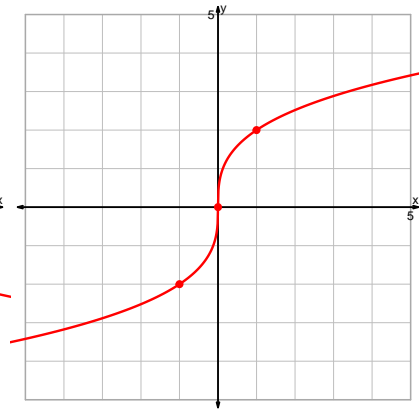
$$y = (x-2)^2$$



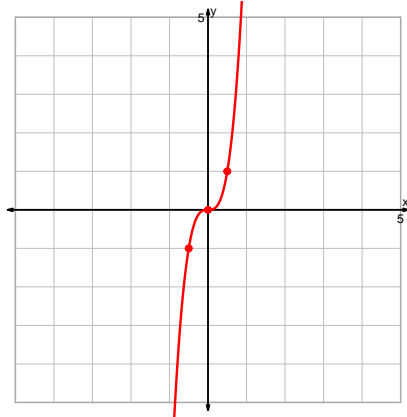
$$y = -\sqrt{x}$$



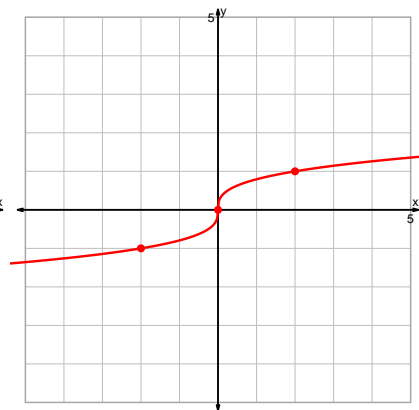
$$y = 2 \cdot \sqrt[3]{x}$$



$$y = (2x)^3$$

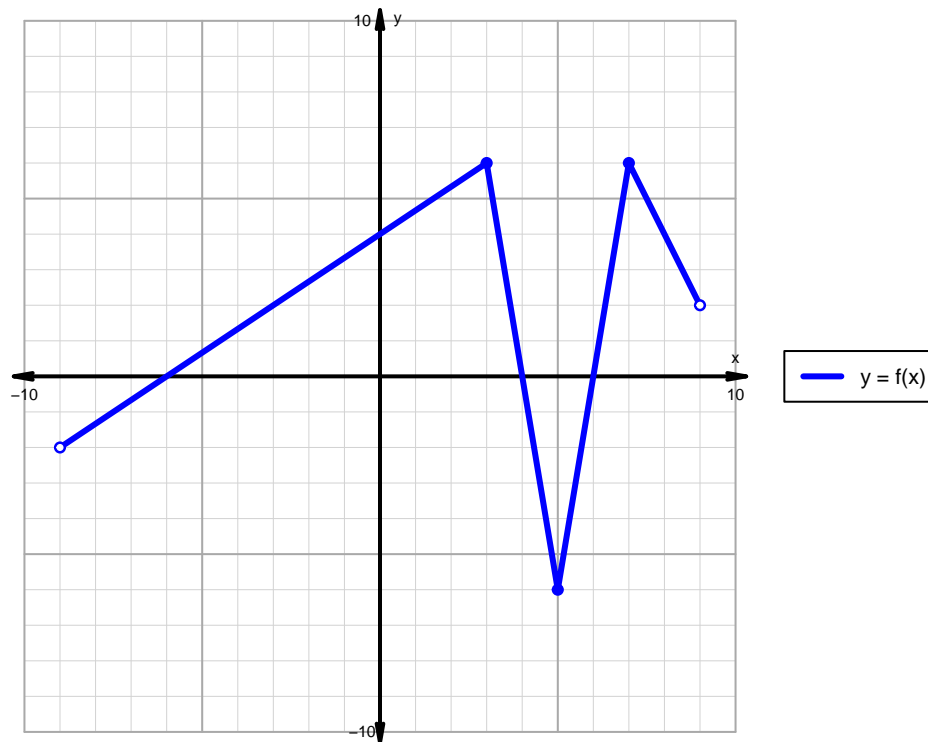


$$y = \sqrt[3]{\frac{x}{2}}$$



Question 2 (20 points)

A function is graphed below.



Indicate the following intervals using interval notation.

Feature	Where
Positive	$(-6, 4) \cup (6, 9)$
Negative	$(-9, -6) \cup (4, 6)$
Increasing	$(-9, 3) \cup (5, 7)$
Decreasing	$(3, 5) \cup (7, 9)$
Domain	$(-9, 9)$
Range	$(-6, 6)$